## California Needs a Biofuels Plan

March 2006

# Current CA Environment <a href="Not">Not</a> Productive

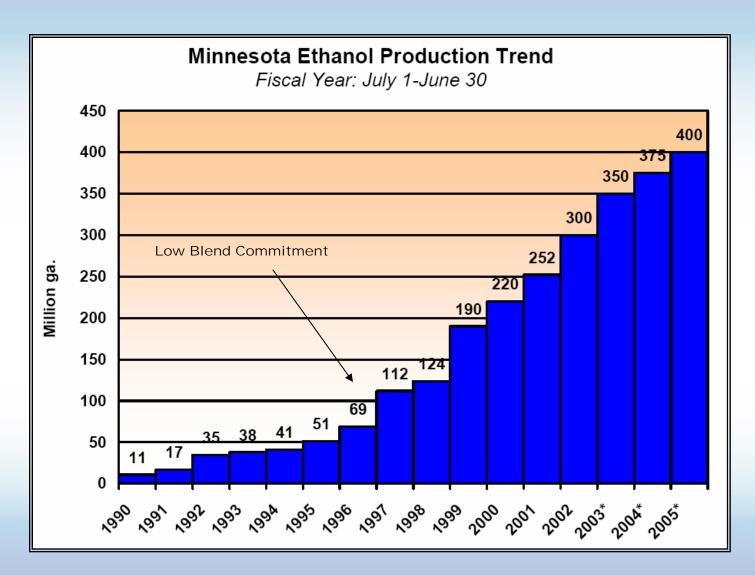
- 3+ Years of Ethanol Use as Replacement for MTBE; little in-state production
- Ongoing Regulatory Uncertainty Chilling Industry Growth
- Contrast: Minnesota nearly tripled in-state production in 3+ years once they made a volumetric commitment to biofuels

#### The Minnesota Plan

 Required statewide blending via state oxygen requirement (1997) & implemented "producer payment" program in 1980s

 Today, for every \$1 paid for ethanol producer payments, the state earns \$16-20 in general fund dollars

## The Minnesota Plan



#### Minnesota Lessons E-85

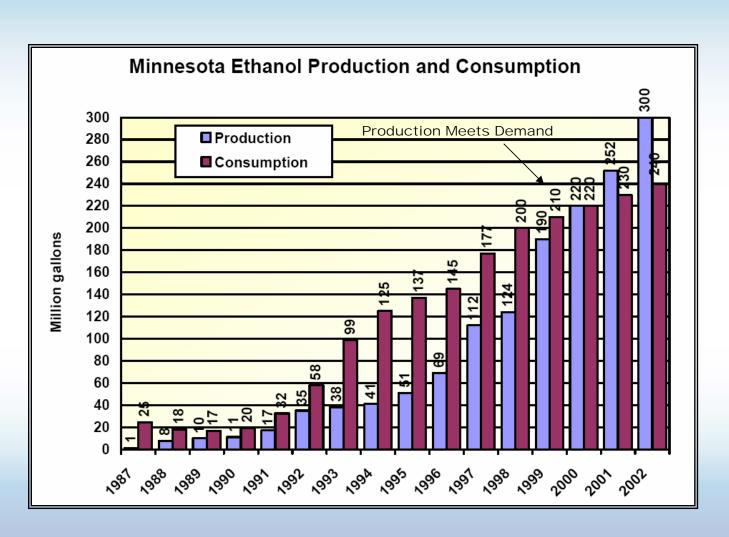
- E-85 enjoys widespread support in California
- How best to promote it?
- Best Solution Incorporates All Available Strategies
- Additional Proposal:

"The Overflow Strategy"

# "Overflow Strategy" for E85

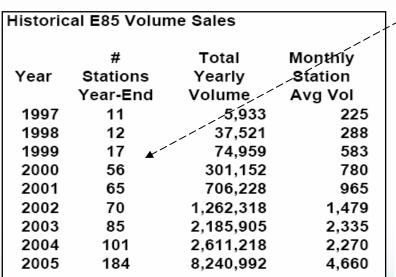
- Overflow Strategy: commit to low blends; let low blend market overflow into high blend market
- Advantages:
  - E-85 Burden on Healthy California Biofuels Industry
  - Less Burden on the State
  - Optimizes Cellulosic R&D Dollars for California

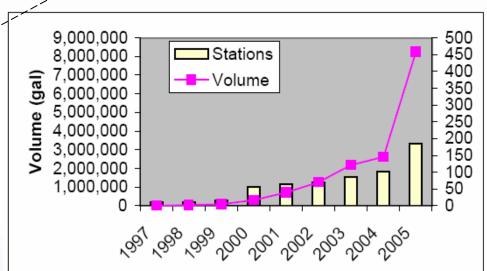
# "Overflow Strategy" At Work



#### Minnesota E85

 When in-state ethanol production meets the demand for low blends ... overflow into high blends?





In-state production met demand in 2000

Minnesota Just Opened Its 200th E-85 Station

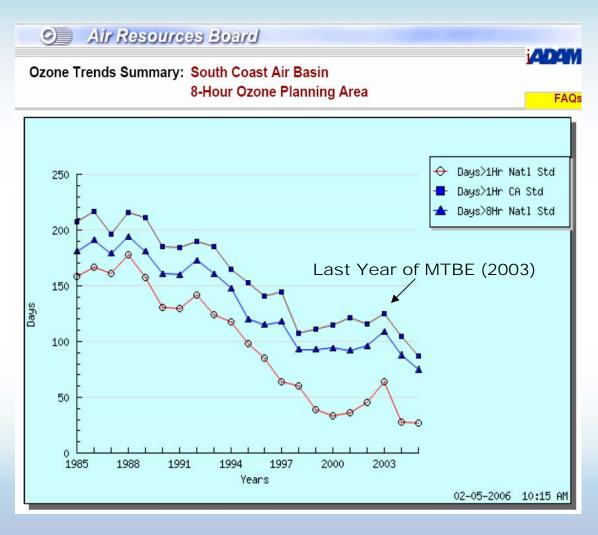
# Proposed RFS A Good Solution

- Flexible Compliance (E6, E10, E85, B2-B20, Renewable Diesel, e-Diesel)
- Lets Predictive Model do its job
- 2 billion gallons by 2020 too conservative; we have 1 billion gallons already; E10 would create 1.5 billion gallons.

# **REAP Ethanol Report**

- Recently Completed Ethanol Analysis
- Many states switched from MTBE to ethanol blends in recent years; we looked at air quality monitoring data
- AQ Modeling useful, but not the only source of data with regard to ethanol

## **CA Ozone Trends**



## CT & NY Ozone Trends

Switch to E10 Annual Summary Information for Ozone (CT) Annual Summary Information for Ozone 8-hour Ozone Exceedance Days 1-hour Ozone Exceedance Days

Annual Summary Information for Ozone (NY)

	1998	1999	2000	2001	2002	2003	2004	2005
8-hour Ozone Exceedance Days	14	20	7	17	28	15	1	10

#### **Immediate Actions**

# **High Priority**

- Capture Existing Ethanol Market (1 billion gal.)
- Capture Low Blend Biodiesel Market
  - No Significant AQ Concerns
  - Low Sulfur Lubricity Solution
- Use these two markets to Catalyze Overflow?
- Instruct ARB to optimize fuels regulations for non-petroleum fuel blending